IOFFE, Boris Veniaminovich: Prinimali uchastiya: TATARSKIY, V.H., prof.;

FRENKKI.', S.Ya., starshiy nauchnyy sotrudnik; RYSKIN, Ya.I.,

nauchnyy sotrudnik; SVERIMOVA, O.V., mladshiy nauchnyy sotrudnik;

RAVDEL', A.A., red.; SHETNINA, G.A., red.; ERLIEH, Ya.Ya.,

tekhn.red.

AFRICAN ERREPERENTALISCHE EIN DER SESSESSEN AUF DER SESSESSE ER BEIGERE HER AUF DER AUFBERT DE

[Refractometric methods in chemistry] Refraktometricheskie metody khimii. Leningrad. Gos.neuchno-tekhn.izd-vo khim.lit-ry. 1960. 382 p. (MIRA 14:2)

1. Leningradskiy universitet (for Tatarskiy). 2. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Frenkel!). 3. Institut
khimii silikatov AN SSSR (for Ryskin).

(Refractometry)

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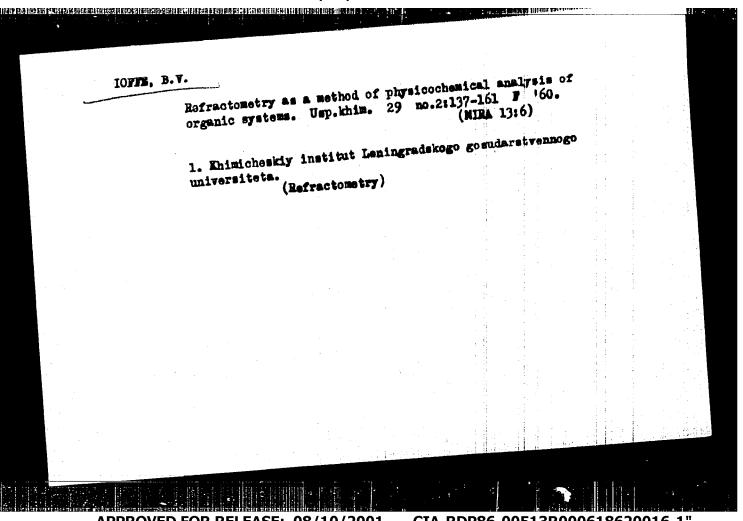
I PHO CENTRAL HINESANDA

IOFFE, B.V.; BORISOV, A.I.

Refractometric determination of tertiary butyl alcohol in complex mixtures with water and secondary and primary alcohols. Zhur.anal. (MIRA 13:7) khim. 15 no.2:227-230 Mr-Ap 160.

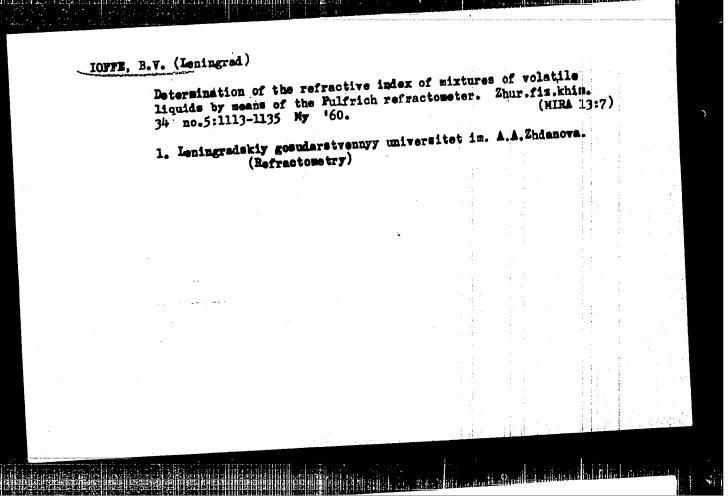
1. Leningradskiy gosudarstvennyy universitet in A.A. Zhdanova.
(Batyl alcohol)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620016-



IOFFE, B.V.; ZELENIN, K.N.

Hew rearrangement of hydragine derivatives. Synthesis of Adialkylaminopropionitriles from unsymmetrical dialkylhydrasines and
laminopropionitriles are unsymmetrical dialkylhydrasines and
laminopropionitriles from unsym



8/020/60/134/005/013/023 BO16/B054

AUTHORS:

Toffe, B. V. and Zelenin, K. N.

TITLE

New Regrouping of Hydrazine Derivatives. Production of β-Dialkylamino Propionitriles From Asymmetrical Dialkyl Hydrazines and Acrolein

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 5,

pp. 1094-1097

TEXT: The authors tried to synthesize the hitherto unknown unsaturated hydrazones by condensing asymmetrical dialkyl hydrazines with acrolein, and observed a regrouping of a new type with simultaneous formation of β-dialkylamino propionitriles (see Diagram). This reaction was carried out with dimethyl hydrazine (yield of the final product: 68%) and diethyl hydrazine (yield: 56%). The new regrouping is characterized by the rupture of the nitrogen-nitrogen bond under very mild conditions, i.e., with addition of acrolein to the aqueous solution of the hydrazine salt in the cold, in a weakly acid medium. When acrolein is added to free dimethyl hydrazine (i.e., in an alkaline medium), a water-soluble, highly

Card 1/3

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620016-1"

New Regrouping of Hydrazine Derivatives. Production of  $\beta$  -Dialkylamino Propionitriles From Asymmetrical Dialkyl Hydrazines and Acrolein

S/020/60/134/005/013/023 B016/B054

molecular substance is formed, which has not yet been investigated in detail. When dimethyl hydrazine was added to acrolein, a viclent explosion took place, probably due to a spontaneous polymerization of acrolein. As yet, regroupings with a rupture of the N-N bond and the formation of new N-C bonds have only been found in the aromatic series. Apparently, the reaction with acrolein proceeds via the formation of unsaturated hydrazones: CH2=CH-CH=N-NR2, which in a weakly acid medium are immediately regrouped to aminonitriles. The only known case of nitrile formation from hydrazine derivatives is the catalytic decomposition of aldehyde phenyl hydrazones into nitriles and aniline at about 200°C, i.e., under much harder conditions (discovered by A. Ye. Arbuzov, Ref. 1). The  $\beta$ -dialkylamino propionitriles produced by the authors as described above have hitherto been synthesized by cyanoethylation of secondary amines. They are of practical importance as starting material for the production of physiologically active preparations and detergents. For a reliable identification of the final products obtained, the authors made

Card 2/3

New Regrouping of Hydrazine Derivatives. Production of  $\beta$  -Dialkylamino Propionitriles From Asymmetrical Dialkyl Hydrazines and Acrolein

S/020/60/134/005/013/023 B016/B054

their syntheses from acrylonitrile (Refs. 2,3). Table 1 shows the melting points of the products obtained. Finally, the authors present the infrared spectra measured on an instrument (UR-10,4 Zeiss, Jena) supplied by A. N. Sidorov. There are 1 table and 10 references: 4 Soviet, 3 US, and 1 French.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanova

PRESENTED:

June 4, 1960, by A. N. Nesmeyanov, Academician

SUBMITTED:

June 2, 1960

Card 3/3

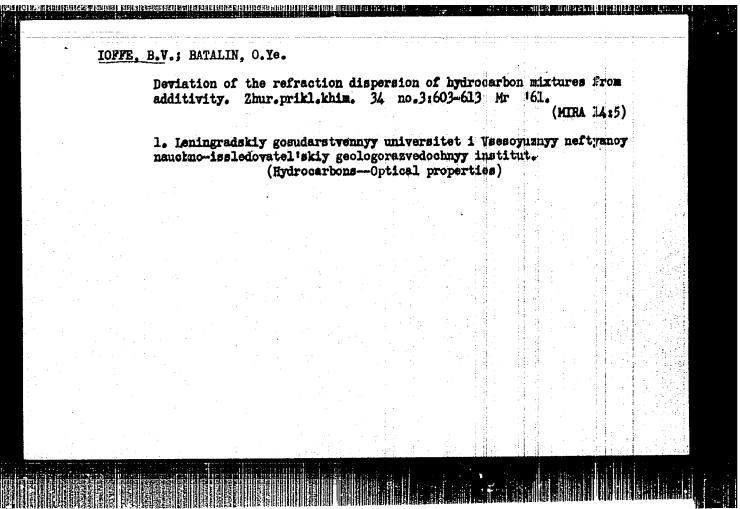
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New data on the dispersimetric analysis of arcmatic hydrocarbons.
Neftekhimiia 1 no.2:156-162 Mr-Ap '61. (MIRA 15:2)

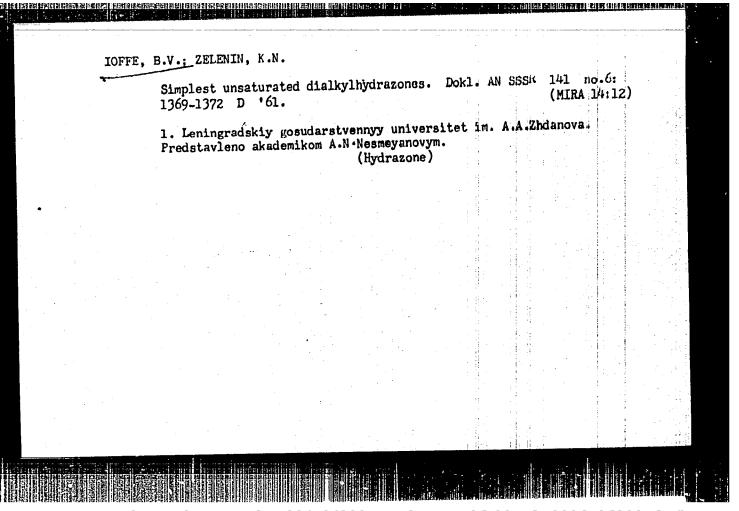
1. Leningradskiy universitet im. A.A. Zhdanova. (Dispersimetry)
(Hydrocarbons—Analysis)

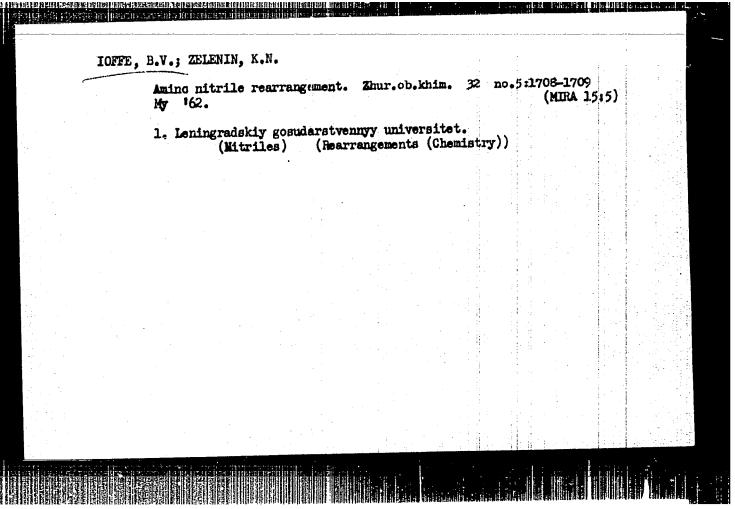
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Relationship between the refractive dis structure. Vest. Mosk. Un. Ser. 2: khim. 1  1. Kafedra organicheskoy khimii Moskovs i kafedra organicheskoy khimii Leningra universiteta.  (Paraffins)  (Chemi (Dispersimetry)	spersion of alkanes and their 16 no.6:67-72 N-D '61. (M.IRA' 14:11) skogo gosudarstvennogo universiteta	
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IOFFE, B.V.; STOLYAROV, B.V.

Quantitative analysis of mixtures of propyl- and butyl benzenes by the method of gas-liquid chromatography. Nefteknimia 2 no.6: 911-917 N-D '62. (MIRA 17:10)

1. Leningradskiy universitet im. A.A. Zhdanova.

IOFTE, B.V.; ZELENIN, K.N.

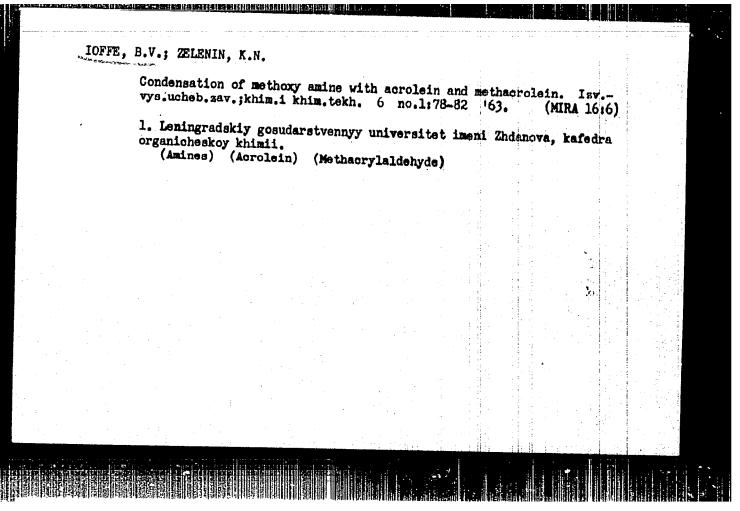
Mechanism of smino nitrile rearrangement. Dokl. AN SSSR. 1/4 no.6:
1303-1306 Je '62.

(MIRA 15:6)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.

(Nitriles)

(Nitriles)



Condensation of asymmetric dipropyl- and dibutylhydrazines with acrolein and methacrolein. Zhur.ob.khim. 33 no.7:2188-2196
J1 '63. (MIRA 16'8)

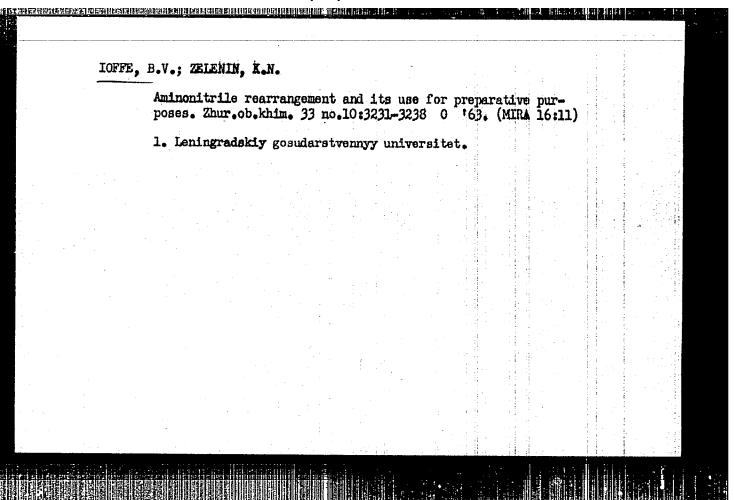
1. Leningradskiy gosudarstvennyy universitet.
(Hydrasine) (Acrolein)

IOFFE, B.V.; YAN TSZAN'-SI [Yang TSan-hsi]

Iosmerisation, orientation, and steric hindrances during the sulfuric acid alkylation of o-xylene, p-xylene, and mestivlene with alcohols. Zhun'ob.khim. 33 no.7;2196-2202 Jl '63.

(MIRA 16:8)

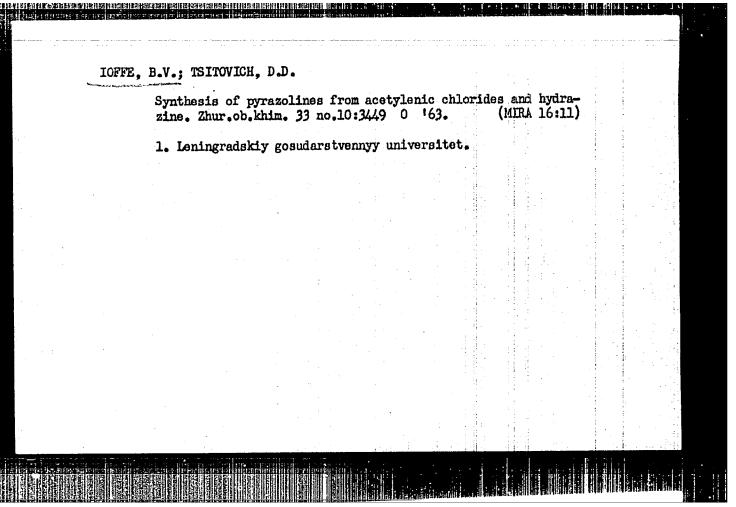
1. Leningradskiy gozudarstvennyy universitet.
(Hydrocarbons) (Themerisation) (Alkylation)



IOFFE, B.V.; SERGETEVA, Z.I.; TSITOVICH, D.D.

Propergyl rearrangement of a new type. Zhur.ob.khim. 33 no.10:
3448 0 '63.

1. Leningradskiy gosudarstvennyy universitet.



IOFFE, B	.v.; sergeyeva, Z.	-c anatamary	aldehyde nydraz	conium salts.	
	Aminonitrile clear Zhur. ob. khim. 3	33 no.8:2794-2795 A	g 163.	(MIRA 16:11)	
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ACCESSION NR: AP4024412

g/0204/64/004/001/0160/0169

AUTHOR: Ioffe, B. V.; Batalin, O. Ye.

TITLE: Determination of the group composition of the dearonatized portion of direct distillation gasolines.

SOURCE: Neftekhimiya, v. 4, no. 1, 1964, 160-169

TOPIC TAGS: gasoline, group analysis, paraffinic hydrocarbon, naphthenic hydrocarbon, bicyclic hydrocarbon, alkylcyclopentane, alkylcyclohexane, aniline point, refractive index, density, specific refractivity, physical constant, mean arithmetic value

ABSTRACT: Calculations were made of the mean arithmetic values of the physical constants for paraffinic and naphthenic hydrocarbons of direct distillate gasoline fractions and an effort was made to ascertain the possibility of further improving methods of group analyses using the new calculated constants. Standard gasoline fractions were used: 40-60 C, 60-95 C, 95-122 C, 122-150 C, 150-175 C and 175-200 C. The paraffinics are normal-structure methanes, i.e., normal alkanes and mono- and di-methylalkanes. The naphthenics include alkyleylcopentanes,

Cord 1/3

ACCESSION NR: AP4024412

alkylcyclohexanes and bicyclic hydrocarbons (the percentage of bicyclics in the 122-150 C fraction is less than 1%, in the 150-175 C fraction is 5% and in the 175-200 C fraction, 15%). In the naphthenics it was necessary to establish the ratio of the above mentioned three component types of hydrocarbons in the specific fractions and to establish the ratios of the cis and trans forms and the distribution of the alkylcyclopentanes and alkylcyclohexanes. There is a linear relationship between the aniline points and the physical constants, the refractive index, density and specific refractivity. The recommended mean values for the physical constants for the various types of hydrocarbons in the standard gasoline fractions are tabulated. The effect of variations in the hydrocarbon composition of matural gasolines and of experimental errors on the accuracy of group analysis was evaluated. The accuracy was found to be within 3% and approximately the same for the refractive index, density and aniline point values. Specific refractivity does not provide for greater accuracy in the analysis in comparison with the other physical constants, in spite of its lesser sensitivity to variation in the hydrocarbon composition. The naphthenic hydrocarbon content (N) is calculated by the formula:

Card 2/3

ACCESSION NR: AP4024412

where al z value of the property for paraffinic hydrocarbons, az z value of the property for naphthenic hydrocarbons and a z value of the property of the saturated fraction. Orig. art. has: 2 figures and 7 tables.

ASSOCIATION: Leningradskiy universitet im. A. A. Zhdanova Khimicheskiy fakul tet (Leningrad University, Chemistry Department)

SURMITTED: 22Jun63

DATE ACQ: 17Apr64

EMCL: 00

SUB CODE: GC, FP

NO REF SOV: 024

OTHER: 021

Card 3/3

ICFFE, B.V.; BATALIN, O.Ye.

Determining the group composition of the dearcomatized part of straight-run gasolines. Neftekhimiia 4 no.1:160-169 Ja-F'64

1. Teningradskiy universitet imeni A.A. Thdanova, Khimicheskiy fakulitet.

IOFFE, B.V.; STOLYAROV, B.V.

Physicochemical properties of isomeric pentylbenzenes. Neftekhimin 4 no.3:361-366 My-Je \*64. (MIRA 18:2)

1. Leningradekly gosudarstvennyy universitet.

IOFFE, B.V.; BATALIN, O.Ye.

Refractometric methods in the determination of the group composition of gasoline fractions. Neftekhimia 4 no.3:481-486 My-Je 64. (MIRA 18:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.

IOFFE, B.V.; ZELENIN, K.N.

Hofmann degradation of the pyrazoline ring. Dokl. AN SSSR
154 no.4:864-867 F '64.

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
Predstavleno akademikom B.A. Kazanskim.

IOFFE, B.V.; TSITOVICH, D.D.

New method of synthesizing pyrazolines. Condensation of tertiary acetylene chlorides with hydrazine. Dokl. AN SSSR 155 no.6: 1348-1351 Ap '64. (MIRA 17:4)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom A.N.Nesmeyanovym.

10FFE, B.V.; STOLYAROV, B.V.

Isomerization and fragmentation of carbenium ions during sulfate alkylation. Dokl. AN SSSR 161 no.6:1339-1341 Ap 165. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Submitted September 25, 1964.

IOFFE, B.V.; YAKHKIND, A.K.

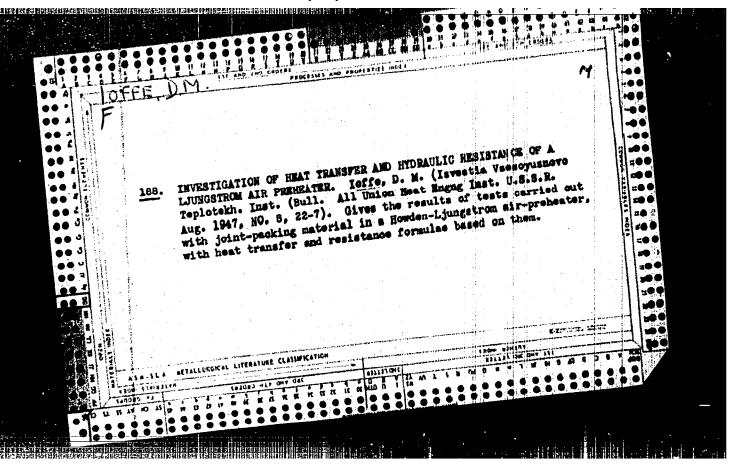
Messurement of immersion liquids of high refractive in ick on the iRF-23 reflectometers (fulfrich type). Zap. Vens. min. ob-vk 94 no.4:475-476 \*65.

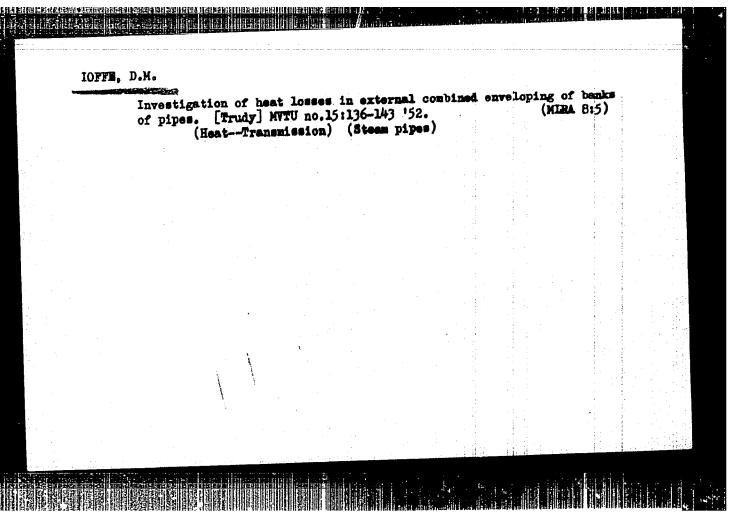
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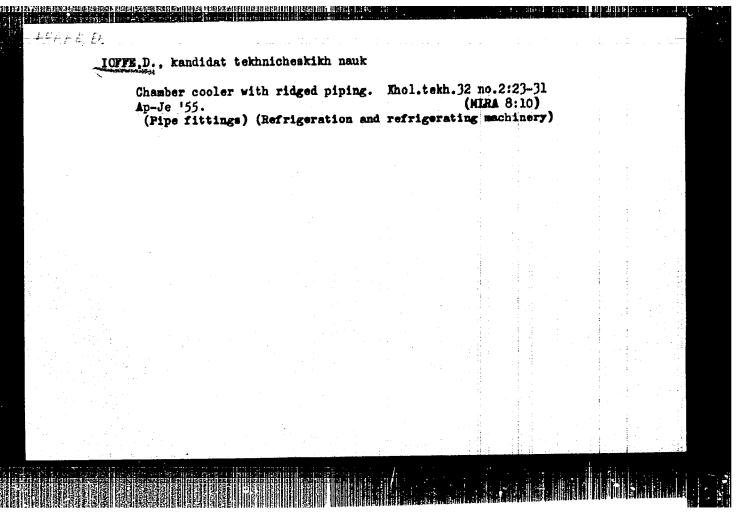
AUTHOR: Yakhkind, A. K.; Ioffe, B. V.				30
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ORG: none				
TITLE: Using highly refractive glass for cal-angle refractometers	r expanding the	measurement	range or cra	
SOURCE: Optiko-mekhanicheskaya promysh	ennost', no. 1,	1966, 1-5		
TOPIC TAGS: refractive index, optic gl	ass, refractomet	er, optic pr	.sm	
ABSTRACT: The authors review the prope	rties of highly	refractive i	ndustrial and	ex- ng
perimental glasses and examine the poss	ibilities for us	invesed th	maximum DOS	sible
indices of refraction which may be meas	mely high indic	os of refrac	tion (2.2530)	at
435.8 mu) and are transparent in the vi	Sibie win near a	nand for ne	asuring indi	es of
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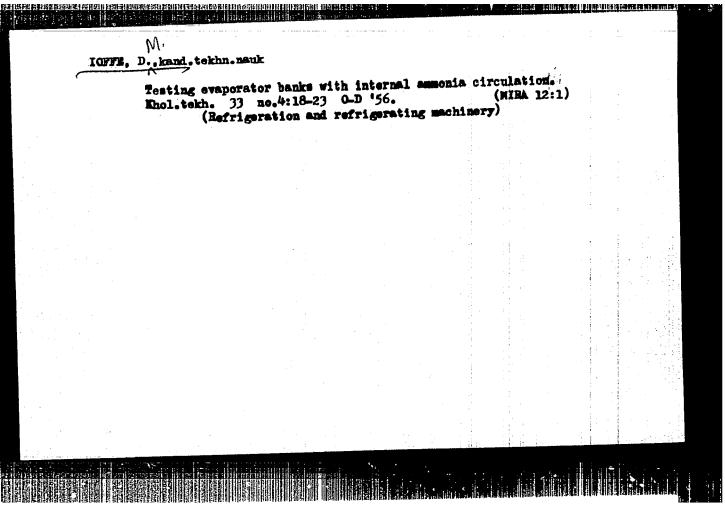
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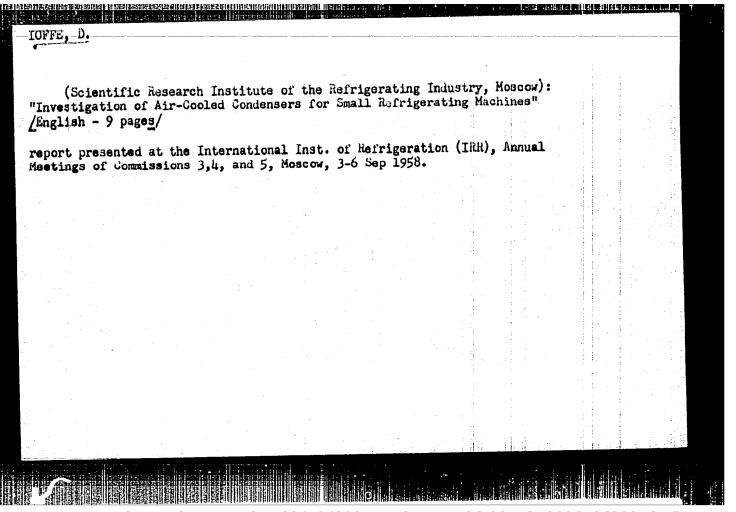
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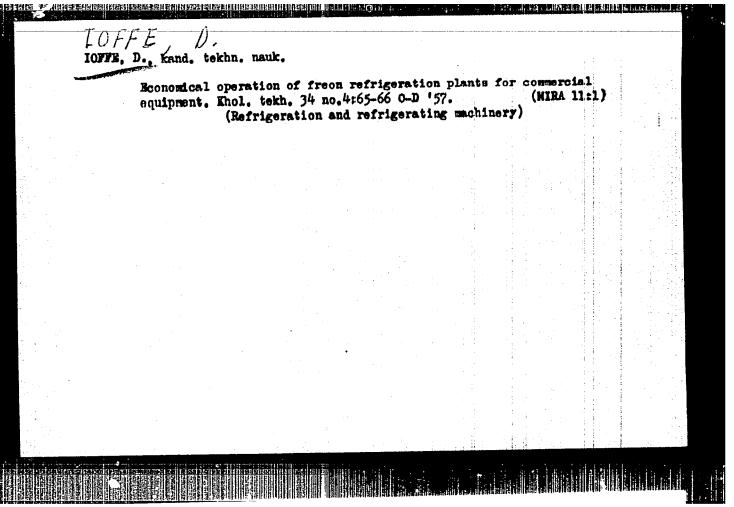












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PHASE I BOOK EXPADITATION

S0Y/2365

Ioffe, Dmitriy Moiseyevich

Kondensatory s vozdushnym okhlazhdeniyem dlya malykh kholodil'nykh agregatov; nauchnoye soobshcheniye (Air-cooled Condensors For Small Refrigeration Units; Scientific Report) Moscow, Costorgizdat, 1958. 39 p. 2,500 copies printed.

USSR
Sponsoring Agencies: Ministerstvo torgovli, and Vsesoyuznyy nauchnorisaledovatelise skiy institut kholodil'noy promyshlennosti.

Ed.: N. G. Nikolayeva; Tech. Ed.: N. N. Sokolova.

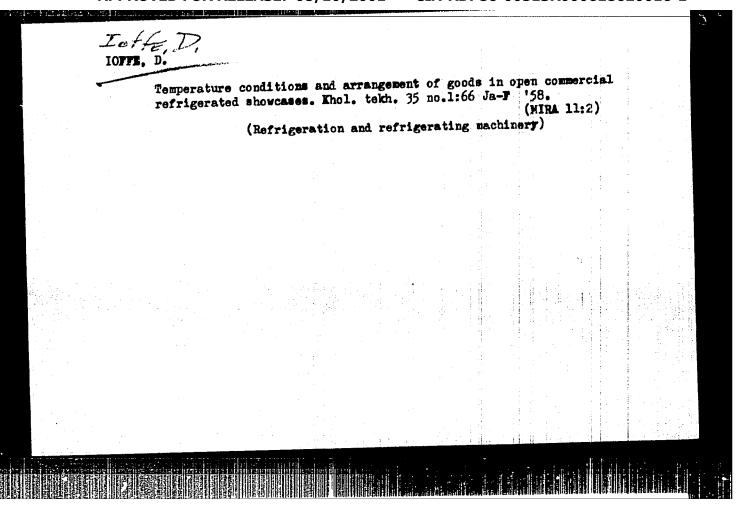
PURPOSE: This book is intended for specialists in the refrigeration industry.

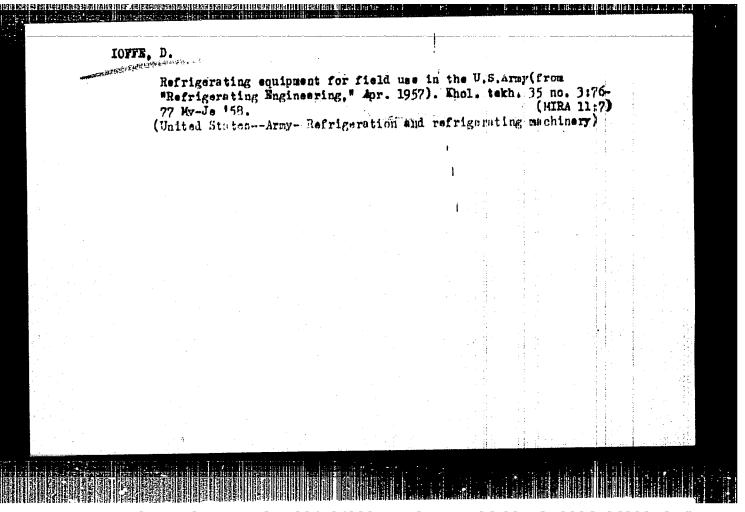
COVERAGE: This book deals with the construction and utilization of air-cooled condensers for refrigeration units. Results of an investigation on condensers made by VNIKhI are presented. Formulas for heat and hydraulic designs, suggestions for selecting air velocity, and arrangements of the surfaces of heat exchangers are given. No personalities are mentioned. There are 13 references: 6 Soviet, and 7 English.

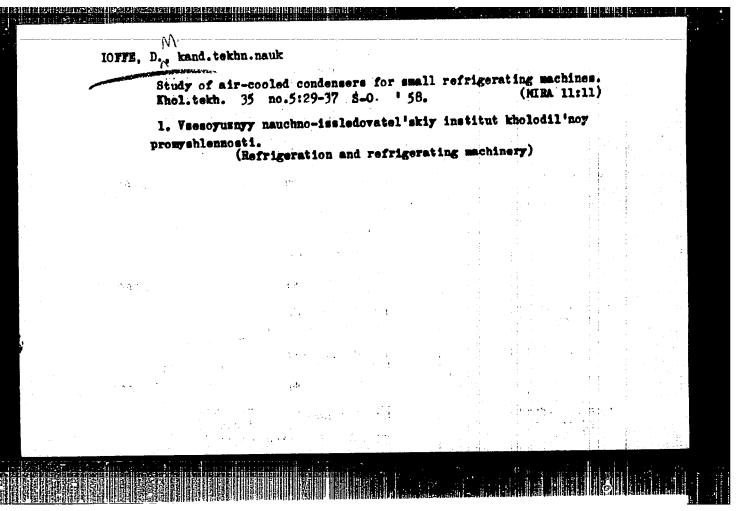
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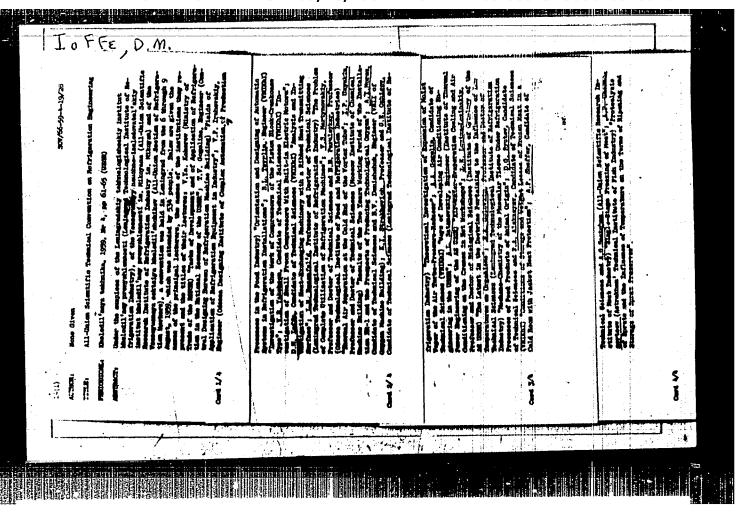
Air-cooled Condensors	nsors (Cont.)		SOV/2365	
TABLE OF CONTENTS:				
' Introduction		- d - 1		3
Design and Arrangemen	it of Condensers			5
Testing Methods and S	pecifications			13
Testing Results		• •		21
Conclusion				32
Bibliography	· · · · · · · · · · · · · · · · · · ·			40
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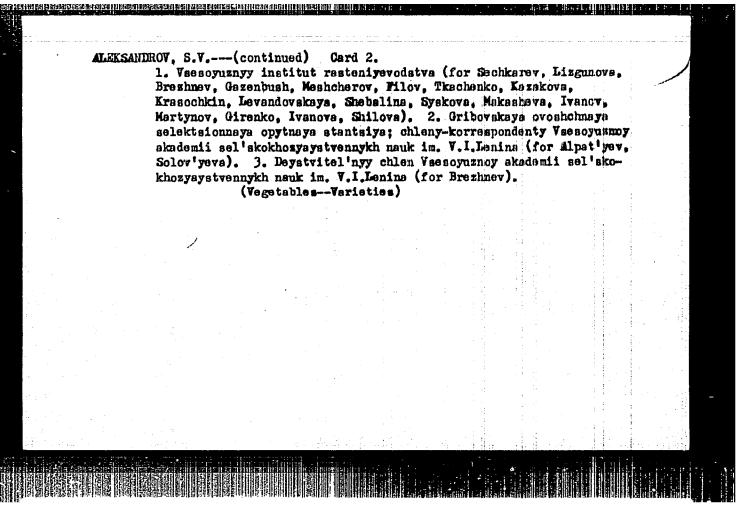
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BADYL'KES, I.S., prof., doktor tekhn.nauk; BUKHTER, Ye.Z., insh.; VEYMBERG, B.S., kand.tekhn.nauk; VOL'SKAYA, L.S., inzh.; GERSH, S.Ya., prof., doktor tekhn.nauk [deceased]; GUREVICH, Ye.S., insh.; DANILOVA, C.N., kand.tekhn.nauk; YEFIMOVA, Ye.V., inzh.; IOFFE, D.M., kand.tekhn.nauk; KAN, K.D., kand.tekhn.nauk; LAVROVA, V.V., inzh.; MEDOVAR, L.Ye., inzh.; ROZENFEL'D, L.M., prof., doktor tekhn. nauk; TKACHEV, A.G., prof., doktor tekhn.nauk; TSTHLIN, B.L.; SHUMELISHSKIY, M.G., insh.; SHCHERBAKOV, V.S., inzh.; YAKOBSON, V.B., kand.tekhn.nauk; GOGOLIN, A.A., retsenzent; GUNHMAN, H.A., retsenzent; KARPOV, A.V., retsenzent; KURTLEV, Ye.S., rotsenzent; LIVSHITS, A.B., retsenzent; CHISTIAKOV, F.M., retsenzent; SHEYHIEIN, A.Ye., retsenzent; SHEMSHEDINOV, G.A., retsenzent; PAVLOV, R.V., spetsred.; KOBULASHVILI, Sh.N., glavnyy red.; RYUTOV, D.G., zam.glavnogo red.; GOLOVKIN, N.A., red.; CHIZHOV, G.B., red.; NAZAHOV, B.A., glavnyy red.izd-va: NIKOLAYEVA, N.C., red.; EYDINOVA, S.C., mladshiy red.; MEDRISH, D.M., tekhn.red.

[Refrigeration engineering; encyclopedic reference book in three volumes] Kholodil nais tekhnika; entsiklopedicheskii spravochnik v trekh knigskh. Glav.red. Sh.N.Kobulashvili i dr. Leningrad. Gostorgizdat. Vol.1. [Techniques of the production of artificial cold] Tekhnika proisvodstva iskusstvennogo kholoda. 1960. 544 p. (MIRA 13:12)

(Refrigeration and refrigerating machinery)



ZELILOVSKIY, I., insh.; IOFFE, D., kand. tekhn. nauk

Hew hermetic refrigerating unit of 700 kcal/hr capacity. Kholkekh.
37 no.5;4-8 S-0 '60. (MIRA 1310)

1. Khar\*kovskiy savod torgovogo mashinostroyeniya (for Zelikovskiy).
2. Vaseoyunnyy nauchan-isəledovatel'skiy institut kholodil\*noy promyshlennosti (for Loffe).

(Refrigeration and refrigerating machinery)

s/066/60/000/006/001/009 A053/A029

AUTHOR:

Ioffe, D., Candidate of Technical Sciences

TITLE:

Refrigerating Unit AK 248-6/3 (AK 2FV-6/3) With Air-Cooled

Condenser

PERIODICAL: Kholodil'naya tekhnika, 1960, No. 6, pp. 4-8

TEXT: The article gives a description of the design and the results of tests of the Freon-12 air-cooled refrigerating unit AK 2FV-6/3 with a rated capacity of 3,000 kcal/hour, produced by the Moscow Plant "Iskra". The design of this unit has been worked out by the Central Designing Bureau of Refrigeration Machine Building in cooperation with "Iskra". The unit, which weighs 190 kg, comprises the following elements: compressor, motor, which weighs 190 kg, comprises the following elements: compressor, motor, condenser, fan, receiver, pressure relay, supports, as well as filter, dryer, and heat exchanger mounted on a separate panel. The compressor is of the vertical two-cylinder type, having a diameter of 67.5 mm and a 50 mm piston stroke with 650 rpm. The condenser is of the 6-sectional type with copper tubes 12 x 1 mm and steel ribs 24 mm wide with a 4.5 mm pitch. The air circulating around the condenser is forced through by a 6-blade fan,

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APPROVED FOR RELEASE: 08/10/2001 CI

CIA-RDP86-00513R000618620016-1"

8/066/60/000/006/001/009 A053/A029

Refrigerating Unit AK 248-6/3 (AK 2FV-6/3) With Air-Cocled Condenser

mounted on the shaft of the 2.8-kw motor, which is connected with the compressor by a triple V-belt drive. Compressor and motor are mounted on the receiver. The heat exchanger consists of a steel jacket and a 10 x 1 mm copper tube coil; the vapor passes through the jacket, while the cooling agent flows through the coil. The heat exchanger is placed before the filter, which is equipped with a brass net and an asbestos sheet 3 mm thick. Unit and compressor have been tested in the laboratory of VNIKhI by the author, using a stand with an electric calorimeter. The capacity of the unit in accordance with readings of the calorimeter and the condenser was 4.3 % on an average. Tests were conducted at air temperatures of 200, 300 and 40°C and at a vapor temperature of 15°C. The compressor was tested at condensation temperatures of 25°, 30° and 50°C. The article describes the tests on the capacity, performance factor and condensation temperatures of the unit for cooling air temperatures of 20°, 30° and 40°C and for fans with different capacities. Thus at a boiling temperature of -1500 and an air temperature of 20°C the refrigerating capacity of the unit amounted to 3,330 kcal/hour, which is 11 % higher than the rated capacity. By changing

Card 2/6

\$/066/60/000/006/001/009 A053/A029

Refrigerating Unit AK 24B-6/3 (AK 2FV-6/3) With Air-Cooled Condenser

the boiling temperature from -30°C to 5°C, the refrigerating capacity incrases from 1,200 to 5,700 kcal/hour or almost 5 times, but the difference between boiling temperature and air temperature from 4°C to 20°C. This shows that the design of this unit is not an adequate solution. In the unit with the same compressor intended for low temperature equipment, a condenser could be installed with a surface 2.5 times smaller as compared with that in the condenser of the unit AK 248-6/3 (AK 2FV-6/3). At boiling temperatures close to 0°C, the dimensions of the condenser are insufficient and the temperature limit of 50°C [FOCT 6492-53 (GOST 6492-53)] is already reached at an air temperature of 30°C. The AK 2FV-6/3 unit should be used in installation with boiling temperatures from -25°C to -5°C. For higher and lower temperatures units of different condenser and fan dimensions should be issued, as provided for in the grading of small hermetically sealed refrigerators (Ref. 2). Other tests revealed that the best air rate is 5 - 7 kg/m2 second (Ref. 3). Experimenting with different condensers, it was found that the pitch of the ribs should be reduced to 3.5 mm, the thickness to 0.35 mm and the number of sections to 5. Copper tubes could be replaced

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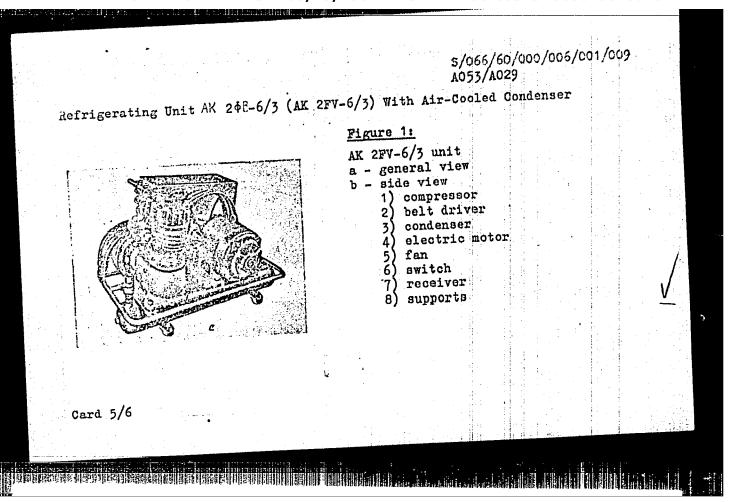
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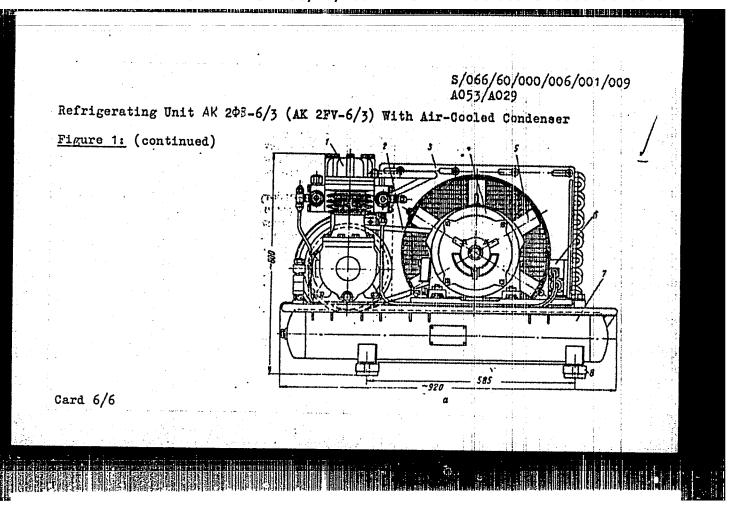
Refrigerating Unit AK 24B-6/3 (AK 2FV-6/3) With Air-Cooled Condenser

by steel tubes, since copper holds no advantage over steel in this case. Air cooled condensers should use steel or aluminum tubes. A comparison between air- and water-cooled refrigerators shows that the latter are 32 % heavier than the former. Further investigations show that the cost of water and power consumption in water-cooled refrigerators is 35 % higher than the cost of power consumed by the AK 2FV-6/3 unit with air-cooled condenser. There is 1 photograph, 2 diagrams, 2 graphs and 4 Soviet references.

ASSOCIATION: Vsesoyuznyy nauchno issledovatel'skiy institut kholodil'noy promyshlennosti im A. I. Mikoyana (All-Union Scientific Repromyshlennosti im A. I. Mikoyana (Industry im. A. I. Mikoyan)

Card 4/6



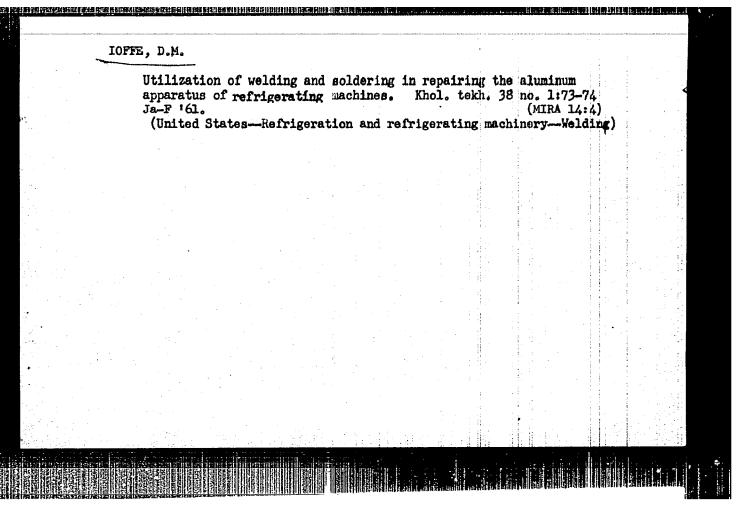


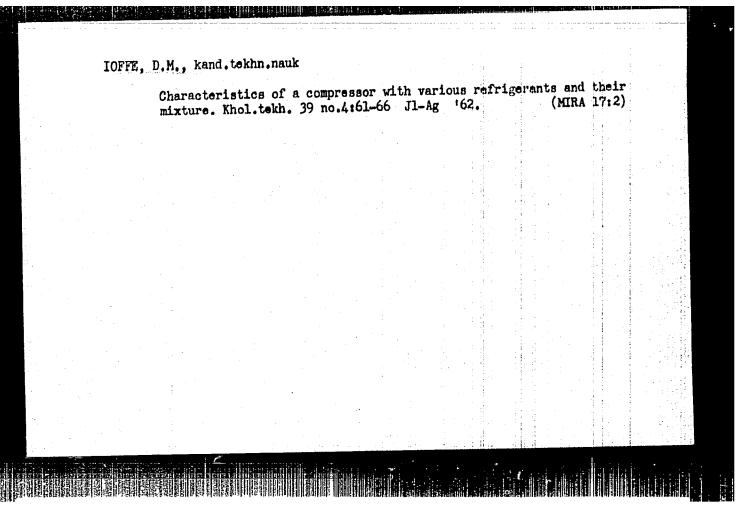
IOFFE, Dmitriy Moiseyevich; YAKOBSON, Viktor Borisovich; CHICHKOV, N.V., red.; EL'KINA, E.M., tekhn. red.

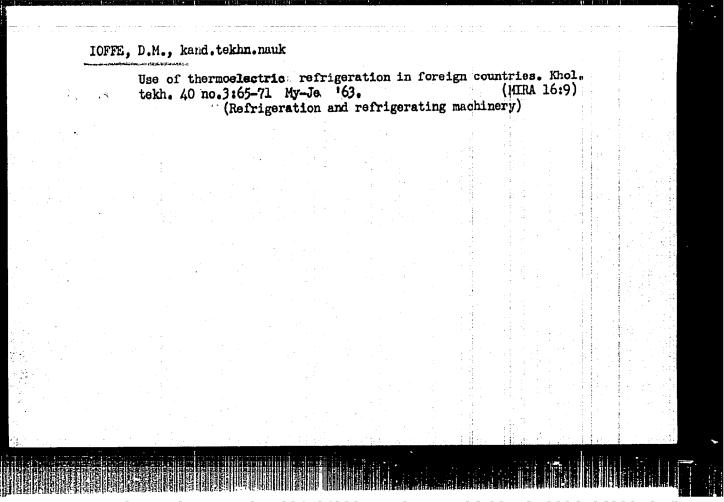
[Small refrigerating machines and commercial refrigerating equipment]

Malye kholodil'nye mashiny i torgovoe kholodil'noe oborudowanie. Moskva, Gos. izd-vo torg. lit-ry, 1961. 298 p. (MIRA Lill)

(Refrigeration and refrigerating machinery)







# IOFFE, D.M., kand. tekhn. nauk

Investigating the technical and economic characteristics and the development of the grading of air-cooled condensers. Khol.tekh. 40 no.6:23-31 N-D '63. (MIRA 17:4)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti.

USSR/Engineering
Construction Industry
BIBliography

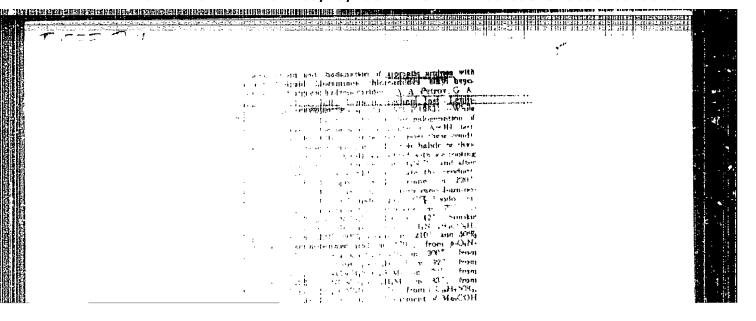
"Soviet Technical Periodicals" 2 pp

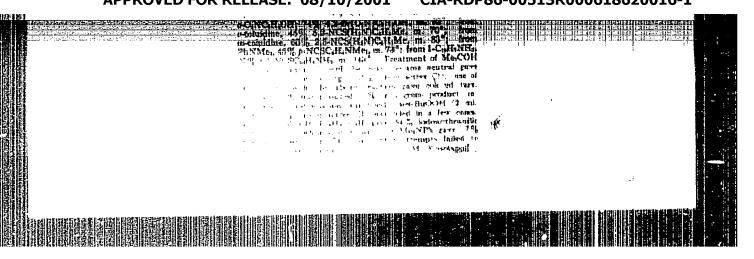
"Stroi Prom No 6

Reviews technical periodicals, among others N. K. Chayka", "Production of Towar Cranes for Essidential Constructions," I. N. Iog's
"Mechanization of Linestone Unloading," D. S. Ioffe's "Nobile—Suspension Cableway," etc.

PA 43/49742

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GINZBURG, O.F.; IGFFR, D.V.; HEL'HIKOVA, N.S.

Dyes with antipyrine rings. Part 4. Acid-base properties of dyes.
Zhur.ob.khim. 25 no.2:358-362 F '55.

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

(Dyes and dyeing-Chemistry)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620016-1

IOFFE, D.V.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61557

Ginzburg, O. F., Ioffe, D. V. Author:

Institution: None

On Dyes Containing Antipyrine Nuclei. V. Hydrolysis of Dyes Title:

with Substituents in Ortho-position

Original.

Periodical: Zh. obshch. khimii, 1955, 25, No 9, 1739-1743

Abstract: By condensation of antipyrine (2 mols) with o-chlor-, o-methoxy-,

o-sulfo- and haulfobenzaldehyde in alcohol in the presence of HCl (~20°, 12 hours) and subsequent treatment with 10% NaOH were prepared diantipyryl phenylmethanes ( ) substituted in the phenyl nucleus (below are listed substituent, yield in %, MP of bases and salts in °C): o-methoxy, 66, 216-217° (from benzene-gasoline), hydrochloride, 184-185° (decomposes); picrate 165-166°; o-chlor, 70, 260-261°, picrate 199-200°; o-sulfo (from Ma-salt in water, 73, temperature of decomposition 288-2900; p-sulfo (from Na-salt

Card 1/3

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61557

Abstract: in water) 93, temperature of decomposition 300-3020 (from alcohol). By oxidation of the prepared I (2 g) and also of the c-nitroderivative (Communication IV, see Referat Zhur - Khimiya, 1956, 54304) with 0.5 ml HNO3 (added in 20 minutes) in 20 ml boiling HCl (d 1.17) in the presence of 0.2 g and with subsequent alkalinization with a solution of NaOH and boiling, there have been prepared the corresponding substituted diantipyrylphenylcarbinols, converted by heating with picric acid (II) to the diantipyrylphenylmethane dyestuffs of the general formula (LIK) (C<sub>6</sub>H<sub>5</sub>)N(CH<sub>3</sub>) = C(CH<sub>3</sub>)C = C(C<sub>6</sub>H<sub>1</sub>R) C = C(CH)N(CH)N(CH)N(CH)CO/X", wherein R = H (III), o-Cl (IV), o-NO<sub>2</sub> (V), o-SO<sub>3</sub>" (VI), p-SO<sub>3</sub>" (VII), c-CH<sub>3</sub> (VIII), and X" is anion II. Dyes VI and VII were obtained directly corresponding I on oxidation and are betaines. Determined was the hydrolysis constant (K1) of the to the corresponding carbinol by the method described in communication IV. Below are listed MP, K1 of dyes (in parentheses is shown K<sub>1</sub> of corresponding para-isomers): III, 2.5·10<sup>-7</sup>; IV, 2.112°, 1.4·10<sup>-7</sup> (8.0 0<sup>-7</sup>); V, 130-132°, 5.6·10<sup>-8</sup> (1.8·10<sup>-5</sup>; VI, --, 2.5·10<sup>-11</sup>; VII, --, 2.4·10<sup>-6</sup>; VIXI, 134-136, --. Comparison shows that negative substituents in para-position of phenyl

Card 2/3

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61557

Abstract: nucleus enhance the hydrolysis of dyes while in ortho-position

they decrease it. This fact is explained by shielding action of the substituents in relation to the central C atom located

next thereto.

Card 3/3

AUTHORS: Rachinskiy, F. Yu., Slavachevskaya, N. M., SOV/79-28-11-21/55

Ioffe, D. V.

TITLE: Mercapto Amines (Merkaptoaminy) I.β-Mercapto Ethyl

Amine and Its N-Substituted Forms ( I. B-Merkapto-

etilamin i yego N-zameshchennyye)

PERIODICAL: Zhurnal obshchey khimii, 1956, Vol 28, Nr 11,

pp 2998 - 3004 (USSR)

ABSTRACT:  $\beta$ -mercapto ethyl amine and its derivatives due to

their pharmacological and chemical properties (Refs 1-5) attract more and more the attention of

scientists. Its synthesis and properties are, however, insufficiently explained. The experiments by I.S.Ioffe on the synthesis of  $\beta$ -mercapto ethyl

amine led the authors to two closely related methods, as they believe: The reaction of ethylenimine with H<sub>2</sub>S, and the acid cleavage of mercapto thiazoline,

which is directly obtained from ethanol amine.
Unlike Knorr (Ref 10) the synthesis of the 2-mercapto

thiazoline in aqueous medium was carried out in the

Card 1/3 presence of an emulsifier (yield:85%). Its acid

Mercapto Amines. I.  $\beta$ -Mercapto Ethyl Amine and Its N-Substituted Forms

SCV/79-28-11-21/55

cleavage is obtained by long boiling with concentrated hydrochloric acid. The formed Bmercapto ethyl amine hydrochloride contained 5% bis-(β-amino ethyl)-disulfide. Mercapto ethyl amine is a strong base and easily forms salts (Table 1); it is easily oxidized to the disulfide by atmospheric oxygen in alkaline medium. The taurine is obtained by strong oxidizing agents. The authors found a synthesis that was more convenient than the one described in reference 13 for the N-substituted β-mercapto ethyl amine, in the condensation of the ethylene thio-oxide with amines, which hitherto has not been sufficiently dealt with in references as regards its reaction conditions. The authors succeeded in demonstrating that in this reaction two cases must be distinguished: The reaction of the ethylene thio-oxide with amines of high basicity, and that with those of low basicity. In table 2 the properties of the synthesized Nsubstituted  $\beta$ -mercapto ethyl amines are mentioned.

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Mercapto Amines. I.  $\beta$ -Mercapto Ethyl Amine and Its N-Substituted Forms

807/79-28-11-21/55

The results obtained show that the  $\beta$ -mercapto ethyl amine is an accessible preparation for the further synthesis of its pharmacological derivatives to be investigated. The synthesis of the amino sulfides was improved proceeding from the  $\beta$ -halogen alkyl amines and sodium disulfide. The properties of the synthesized amine disulfides are given in table 3. There are 3 tables and 19 references, 7 of which are Soviet.

SUBMITTED:

September 25, 1957

Card 3/3

AUTHORS:

Ginzburg, O. F., Ioffe, D. V.,

SOT/79-29-2-34/71

Zavlin, P. M.

TITLE:

On Dyestuffs With Antipyrine Nuclei (O krasitelyakh s antipirinovymi yadrami). VI. Dyestuffs With One Antipyrine Nucleus

(VI. Krasiteli s odnim antipirinovym yadrom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 519-522 (USSR)

ABSTRACT:

On the heating of antipyrine with Michler's ketone in the presence of phosphorus trichloride the dyestuff (I) is formed to the ion of which structure (I) corresponds. This dyestuff colors cotton treated with tannin blue and the wool fiber violet. On the action of alkali liquor (I) is transformed into bis-(n-dimethyl-amino-phenyl)-antipyryl carbinel, which on acidification again passes into the dyestuff. Dyestuff (II) which contains only one antipyrine nucleus was synthesized from antipyryl phenyl ketone and dimethyl alanine. The authors tried to synthesize (II) also by reaction of 4-dimethyl-amino benzophenone with antipyrine in the presence of PCl<sub>3</sub>, but only traces of (II) were produced and diantipyryl methane was obtained from the reaction mass, the formation of

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On Dyestuffs With Antipyrine Nuclei. VI. Dyestuffs With One Antipyrine Nucleus

SOV/79-29-2-34/71

which can be explained only by cleavage of 4-dimethyl-amino benzophenone which is far-reaching under these conditions. Compound (II) is an asymmetrical dyestuff that is similar to the orange antipyrine dyestuff and malachite green as far as their arrangements are concerned. The dyestuffs synthesized hydrolyze in aqueous solutions, as is the case with triaryl methane dyestuffs. The hydrolysis constants of the dyestuffs which were determined by the colorimetric method are listed in table 1. For comparison also the hydrolysis constants of the orange antipyrine dyestuff and malachite green are given in the same table. The asymmetrical dyestuff that is produced from antipyryl phenyl ketone and dimethyl aniline possesses a higher resistivity to hydrolysis than the corresponding symmetrical dyestuffs, malachite green and antipyrine orange. There are 1 figure, 2 tables, and 3 references, 2 of which are Soviet.

Card 2/3

On Dyestuffs With Antipyrine Nuclei. VI. Dyestuffs With One Antipyrine Nucleus

SOV/79-29-2-34/71

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Institute of Technology imeni Lensovet)

SUBMITTED:

December 31, 1957

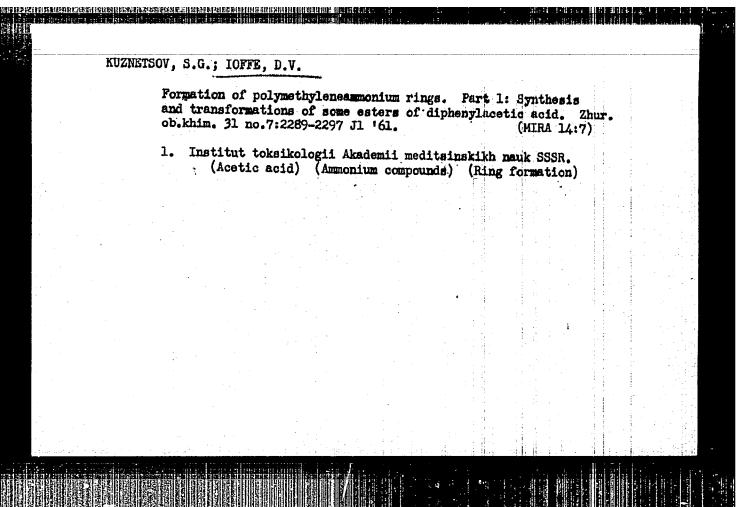
Card 3/3

CIA-RDP86-00513R000618620016-1" APPROVED FOR RELEASE: 08/10/2001

N-oxides of aromatic nitrogen-containing heterocycles. Usp.khim. 30 no.ll:1225-1351 N '61. (MRA 14:10)

1. Ieningradskiy tekhnologicheskiy institut imeni Lensoveta. (Reterocyclic compounds)

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IOFFE, D.V.; KUZNETSOV, S.O.

Preparation of aminoalkyl esters of benzilic acid. Zhur.ob.khim.
31 no.9:3051-3056 S'61. (MIRA 14:9)

1. Institut toksikologii Akademii meditsinskikh nauk, Leningrad. (Benzilic acid)

GOLIKOV, S.N.; KUZNETSOV, S.G.; 10FFE, D.V.

Transformation in the body of certain cholinolytic substances centaining the tertiary amino group into quaternary ammonium compounds. Farm. i toks. 25 no.6:651-657 N-D 62.

(MIRA 17:8)

IOFFE, D.V.; KUZNETSOV, S.G.

Formation of polymethylene ammonium cycles. Part 2:
Synthesis and conversions of some bensilic acid esters.
Zhur.ob.khim. 32 no.10:3237-3244 0 '62. (MIRA 15:11)

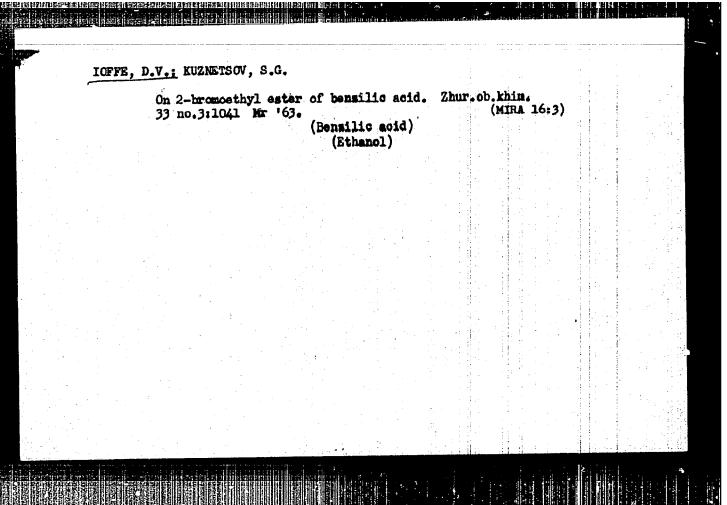
1. Institut toksikologii Ministerstva zdravookhraneniya SSSR, Leningrad.

(Bensilic acid)
(Ethylamine)

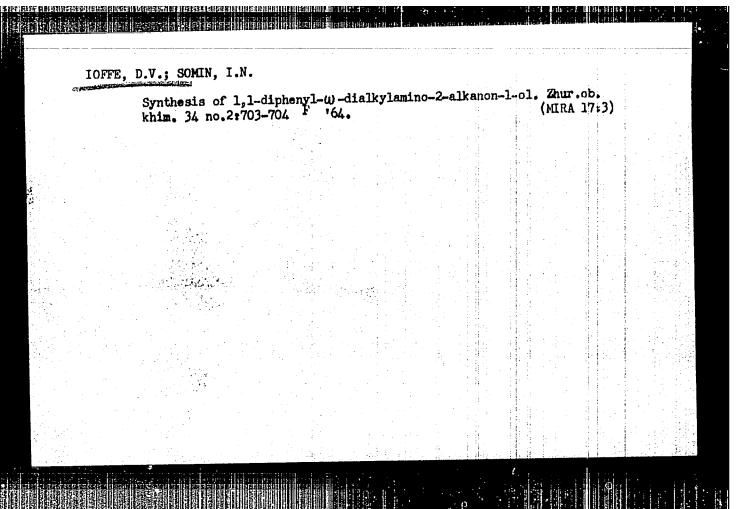
IOPFE, D.V.; KUZNETSOV, S.G.

Migration of the acyl group in N-acyl derivatives of 1,4-amino alcohols. Zhur.obikhim. 33 no.3:991-994. Mr '63. (MIRA 16:3)

(Acyl groups) (Alcohols)



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620016-1"

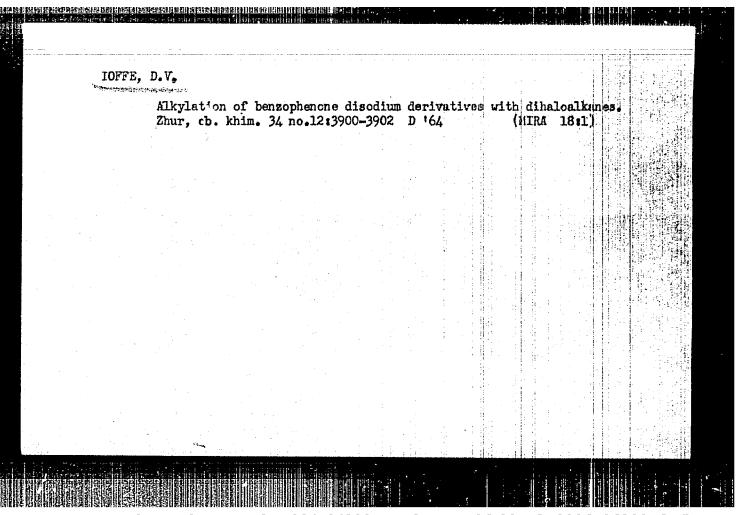


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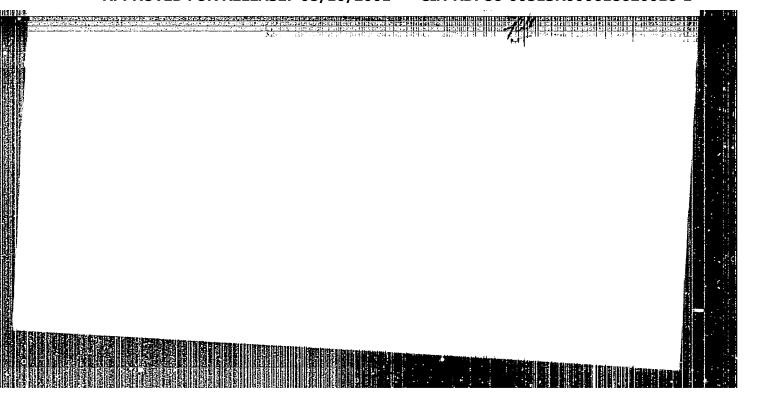
IOFFE, D.V., KUZNETSOV, S.G.

Synthesis of hydroxy butylaminoethyl esters. Zhur. (b. khim. 34 no.12:3898-3900 D 64 (.1RA 18:1)



IOFFE, D.V.

Reducing metalation of carbonyl compounds. Part 34 Interaction of dimetallic benzophenone derivatives with acid nitriles. Zhur. ob. khim. 35 no.10:1851-1855 0 65. (MIRA 18:10)



EELYAYEV, A.M.; LOFFE, E.J.; PERVOZVANSKIY, A.I.; NAVASARDYAN, Ye.N.;
BLIOKH, S.S.; REVAZASHVILI, B.I.; PROTOPOPOV, M.M.; RAKHMATULLIW,
K.Kh.; SEMENOV, V.I.; KRIVOSHEIN, S.S.; SHVETSOV, A.P.; MAKAROV, M.P.;
OTROZHDENNOV, A.I.; ZHUKOV, D.D.; RELYAYEV, A.M.

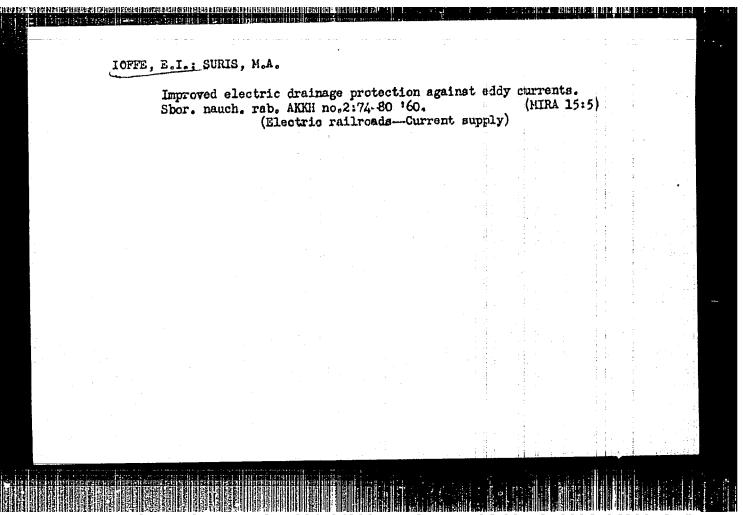
Speeches. Trudy Mekhanobr. no.93:122-173 56. (MIRA 11:6)
(Ore dressing—Equipment and supplies) (Waste products)

GORELIK, Mariam Borisovna, insh.; IOFFE, Brnest Isaakovich, insh.; SURIS, Mordko Ar'yevich; STRIZMEVSKIY, I.V., Kand. tekhn.nauk, red.; AVRUSHCHEKO, R.A., red.isd-va; SALAZKOV, W.P., tekhn.red.

[Protection of the gas network from eddy currents; experience of operating and planning organisations in Moscow] Zashchita gasovykh setei ot blumhdaiushchikh tokov; opyt eksplustatsionnykh i proektnykh organisatsii Moskvy. Moskva, Izd-vo M-va kommun.khos. RSFSR, 1959. 140 p. (MIRA 13:2)

(Electric ourrents, Eddy) (Gas pipes--Corrosion)

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620016-1

(Pipe, Steel—Corrosion) (Electric currents, Leakage)	21/170	Study on the nauch.	of the	effect	of the frequence steel in acid a L. Zashch.podzem	y and densi nd neutrall .soor.ot ko	ty of vag electroly r no.2:10	tes. 3–125	\$bor	
			(Pipe,	Steel-	-Corrosion)	(Electric	currents,			
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TOLSTAYA, M.A.; IOFFE, E.I.; POTEMINSKAYA, I.V.

KALIKI OLIM BESIMBRISI DALA. HILIBARA SELETRI DIN BESAR ENDERNI LITAR HILIBINI DI BURINI ILI HILI DALA SEL

Effect of the salt content, ion composition, the value of pH, and the degree of ground aeration on the corrosicm of underground steel pipelines under the influence of a.c. Transp. i khran. nefti i nefteprod. no. 1:16-23 164. (MIRA 17:5)

1. Akademiya kommunal'nogo khozyaystva im. K.D.Pamfilova.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620016-1"

TOISTAYA, M.A.; IOFFE, E.I.; POTEMINSKAYA, I.V.

Electrochemical corrosion of underground steel equipment by commercial frequency currents. Gaz. delo no. 3:19-26 '64. (MIRA 17:5)

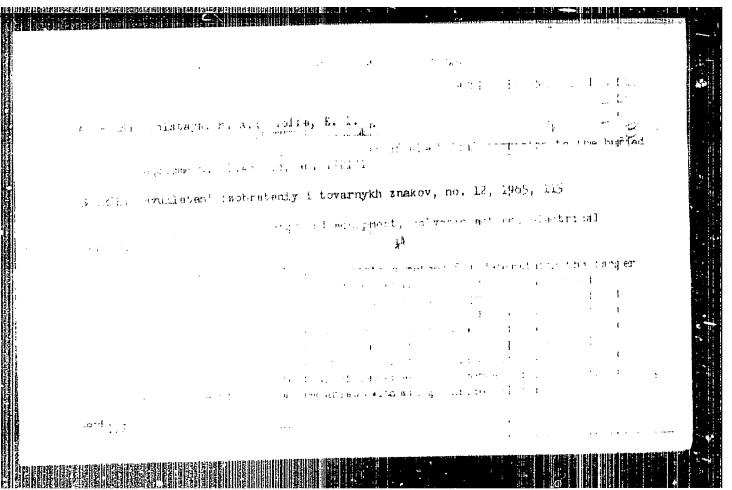
1. Akademiya kommunal'nogo khozyaystva imeni K.D.Pamfilova.

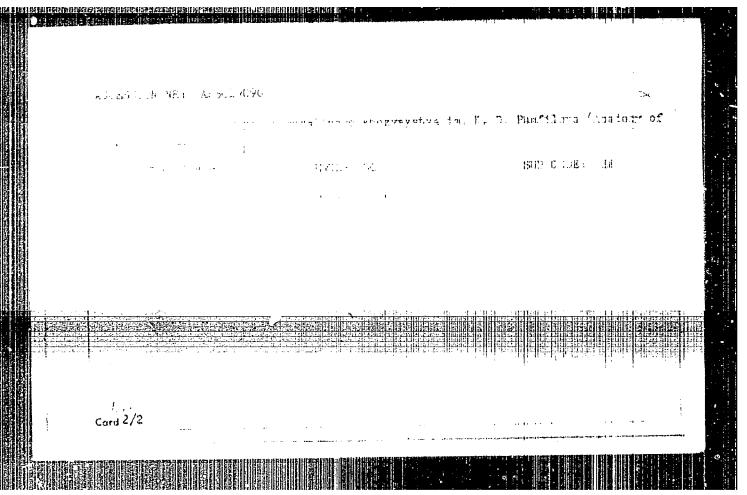
IOFFE, E.I.; TARNIZHEVSKIY, M.V.

Cathodic protection of municipal underground structures. Gaz. (MIRA 18:5)

1. Akademiya kommunal'nogo khozyayatva 1m. K.D. Panfilova.

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620016-1





TOLSTAYA, M.A.; POTEMINSKAYA, I.V.; IOFFE, E.I.

Electrolytic corrosion of cables with an aluminum sheathing under the effect of a commercial frequency alternating current. Zashch. met. 2 no.1:67-74 Ja-F '66. (MIRA 19:1)

1. Akademiya kommunalinogo khozyaystva imeni K.D. Pamfilova, Leningrad. Submitted May 20, 1965.

EWT(m)/EWP(t)/HI IJF(c) JD/WB/JH SOURCE CODE: UR/0365/66/002/002/0168/0175 ACC NR: AP6021077 AUTHOR: Tolstaya, M. A.; Ioffe, E. I.; Poteminskaya, I. V. Academy of Public Economy im. K. D. Pamfilov (Akademiya kommunal'nogo khozyaystva) TITLE: Electrocorrosion of underground aluminum materials in anodic and cathodic zones SOURCE: Zashchita metallov, v. 2, no. 2, 1966, 168-175 TOPIC TAGS: corrosion rate, corrosion protection, aluminum alloy, polarization, cathode polarization, electrochemistry ABSTRACT: A study of the electrocorrosion of aluminum cable sheathing under the action of anodic and cathodic currents is described. The rate of electrocorrosion was measured by weight loss after the surfaces were cleaned in a solution of CrOg (20 g/l) and 85% H<sub>3</sub>PO<sub>4</sub> (35 ml/l) at 90-95°C for 10-20 min. Weight loss is given as a function of anodic current density (constant time -- 30 sec) and time (constant current densities of 0.02, 0.2, 0.75 and 5 ma/dm2). The intensity of corrosion in the anodic regions is characterized by a coefficient of aggressiveness-- $K_{\mathbf{a}}$  (defined as the ratio of actual corrosive wear to that calculated from Faraday's law) which ranged from 1.5 to 1.7. Polarization characteristics of Al and AMg-6 were obtained in sandy soils moist-UDC: 620.193.92 Card 1/2

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ACC NR: AP6021077

ened with 10-12% solutions containing different amounts of Na<sub>2</sub>SO<sub>4</sub>, NaCl, NaHCO<sub>3</sub>, MgSO<sub>4</sub> and MgCl<sub>2</sub>. The intensity of local electrocorrosion was high and caused pitting as a result of erratic currents in both the anodic and cathodic zones. Under the action of the erratic currents in stable cathodic zones, the basic indicator of corrosion danger is the displacement of the electrode potential in the negative direction, surpassing the value of the maximum safe potential -1.4 v (relative to a copper sulfate electrode). Above -1.4 v, alkaline corrosion of Al takes place. The results attest to the difficulty of cathodic protection for underground aluminum materials. Orig. art. has: 5 figures.

SUB CODE: 11 / SUBM DATE: 20May65/ ORIG REF: 012/ OTH REF: 007

Card 2/2/17/LP